WIND CHILL TEMPERATURE INDEX REFERENCE VALUES AND ADVISORY COLD STRESS CONDITIONS

Table A4.1. Equivalent Chill Temperature and Cold Stress Conditions. WINDSPEED CAL CAL		40	35	30	25	20	15	TEMI	PERATUI	RE (F)	-5	-10	-15	-20	-25	-30
M KNO	M MPH	.0										10				
TS		EQUIVALENT CHILL TEMPERATURE														
4 7 to 10	5 10	26 34	31 27	25 21	19 15	13 9	3	1 -4	-5 -10	-11 -16	-16 -22	-22 -28	-28 -35	-34 -41	-40	
11 to 15	15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-41		
16 to 19	20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42			
20 to 23	25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44			
24 to 28	30	28	22	15	8	1	-5	-12	-19	-26	-33	-39				
29 to 32	35	28	21	14	7	0	-7	-14	-21	-27	-34	-41				
33 to 36	40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43				
37 to 41	45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44				
42 to 45	50	26	19	12	4	-3	-10	-17	-24	-31	-38					
46 to 50	55	25	18	11	4	-3	-11	-18	-25	-32	-39					
51 to 53	60	25	17	10	3	-4	-11	-19	-26	-33	-40					
CAUTION																

Table A4.2. Working Practice Guidance in Cold Environment. Cold Stress Condition	Temperature Range	Required Precautions and Hourly Work/Warming Cycle
1	35 to 16 F ECT	Wear standard issue jacket and gloves, do not perform work for more than 60 minutes if not wearing cold weather gear.
2	15 to -4 F ECT	Follow Condition 1 precautions, no outdoor operations with water (vehicle/aircraft washing), wear gloves and total body protection (cold weather gear), avoid heavy sweating, change wet clothes immediately, Prevent dehydration – water intake: 4 qts/day (sedentary), 5-6 qts/day (active) 50 MINUTES WORK/ 10 MINUTES WARMING
3	-5 to -24 F ECT	Follow Condition 2 precautions, wear mittens not gloves if possible, increase layering of clothing, implement the 'buddy' system (two persons should be present during the performance of each open-weather task). 40 MINUTES WORK/20 MINUTES WARMING
4	-25 to -44 F ECT	Follow Condition 3 precuations. Cover all exposed skin. Limit outdoor work to mission essention duties only. 30 MINUTES WORK/30 MINUTES WARMING

a. Warming must be in an indoor, heated environment.b. The Squadron Commander will determine which tasks are mission critical.